

**Study Number:** C15011B-01  
**Test Type:** TOX  
**Route:** Whole-Body Inhalation  
**Species/Strain:** Rat/Harlan Sprague Dawley

**PA03: Non-Neoplastic Lesion Summary with Percent Incidence**  
**Test Compound:** 2-Ethyltoluene  
**CAS Number:** 611-14-3

**Date Report Requested:** 03/31/2021  
**Time Report Requested:** 08:28:46  
**Lab:** Battelle

**Study Number:** C15011B-01  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.1.9

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| F0 Female                               |                        |     |     |     |          |           |
|---|------------------------|-----|-----|-----|----------|-----------|
|   | Treatment Groups (ppm) |     |     |     |          |           |
|   | 0                      | 150 | 300 | 600 | 900      | 1200      |
| <b>Disposition Summary</b>              |                        |     |     |     |          |           |
| Animals Initially In Study              | 12                     | 12  | 12  | 12  | 12       | 12        |
| Censored                                |                        |     | 1   | 1   | 2        |           |
| Early Deaths                            |                        |     |     |     |          |           |
| Found Dead                              |                        |     |     |     |          | 4         |
| Sacrificed, Moribund                    |                        |     |     |     | 4        | 8         |
| Survivors                               |                        |     |     |     |          |           |
| Scheduled Sacrifice, Terminal           | 12                     | 12  | 11  | 11  | 6        |           |
| Number Animals Examined Microscopically |                        |     |     |     | 2        | 10        |
| ALIMENTARY SYSTEM                       |                        |     |     |     |          |           |
| LIVER                                   | (0)                    | (0) | (0) | (0) | (2)      | (4)       |
| CENTRIOBULAR; HEMORRHAGE                |                        |     |     |     | 2 (100%) | 4 (100%)  |
| HEPATODIAPHRAGMATIC NODULE              |                        |     |     |     |          | 1 (25%)   |
| CENTRIOBULAR; NECROSIS                  |                        |     |     |     | 2 (100%) | 4 (100%)  |
| STOMACH, FORESTOMACH                    | (0)                    | (0) | (0) | (0) | (2)      | (10)      |
| HEMORRHAGE                              |                        |     |     |     | 2 (100%) | 10 (100%) |
| ULCER; FOCAL                            |                        |     |     |     |          | 3 (30%)   |
| ULCER; MULTIPLE                         |                        |     |     |     |          | 1 (10%)   |
| STOMACH, GLANDULAR                      | (0)                    | (0) | (0) | (0) | (2)      | (10)      |
| EROSION; FOCAL                          |                        |     |     |     |          | 2 (20%)   |
| HEMORRHAGE                              |                        |     |     |     | 1 (50%)  | 1 (10%)   |
| ULCER; FOCAL                            |                        |     |     |     |          | 1 (10%)   |
| CARDIOVASCULAR SYSTEM                   |                        |     |     |     |          |           |
| No Tissues/Organs Examined              |                        |     |     |     |          |           |
| ENDOCRINE SYSTEM                        |                        |     |     |     |          |           |
| No Tissues/Organs Examined              |                        |     |     |     |          |           |

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| F0 Female                  |                        |     |     |     |     |          |
|----------------------------|------------------------|-----|-----|-----|-----|----------|
|                            | Treatment Groups (ppm) |     |     |     |     |          |
|                            | 0                      | 150 | 300 | 600 | 900 | 1200     |
| GENERAL BODY SYSTEM        |                        |     |     |     |     |          |
| No Tissues/Organs Examined |                        |     |     |     |     |          |
| GENITAL SYSTEM             |                        |     |     |     |     |          |
| No Tissues/Organs Examined |                        |     |     |     |     |          |
| HEMATOLYMPHOID SYSTEM      |                        |     |     |     |     |          |
| LYMPH NODE, MESENTERIC     | (0)                    | (0) | (0) | (0) | (0) | (1)      |
| SINUS ERYTHROCYTOSIS       |                        |     |     |     |     | 1 (100%) |
| INTEGUMENTARY SYSTEM       |                        |     |     |     |     |          |
| No Tissues/Organs Examined |                        |     |     |     |     |          |
| MUSCULOSKELETAL SYSTEM     |                        |     |     |     |     |          |
| No Tissues/Organs Examined |                        |     |     |     |     |          |
| NERVOUS SYSTEM             |                        |     |     |     |     |          |
| No Tissues/Organs Examined |                        |     |     |     |     |          |
| RESPIRATORY SYSTEM         |                        |     |     |     |     |          |
| No Tissues/Organs Examined |                        |     |     |     |     |          |
| SPECIAL SENSES SYSTEM      |                        |     |     |     |     |          |
| No Tissues/Organs Examined |                        |     |     |     |     |          |
| URINARY SYSTEM             |                        |     |     |     |     |          |
| KIDNEY, LEFT               | (0)                    | (0) | (0) | (0) | (1) | (0)      |
| KIDNEY, RIGHT              | (0)                    | (0) | (0) | (0) | (1) | (0)      |

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**F1 Male: F1 Biosample**

|   | Treatment Groups (ppm) |          |
|---|------------------------|----------|
|   | 0                      | 600      |
| <b>Disposition Summary</b>              |                        |          |
| Animals Initially In Study              | 6                      | 6        |
| Censored                                |                        | 3        |
| Early Deaths                            |                        |          |
| Found Dead                              |                        | 2        |
| Sacrificed, Moribund                    |                        | 1        |
| Survivors                               |                        |          |
| Scheduled Sacrifice, Terminal           | 6                      |          |
| Number Animals Examined Microscopically |                        | 5        |
| ALIMENTARY SYSTEM                       |                        |          |
| STOMACH, FORESTOMACH                    | (0)                    | (1)      |
| STOMACH, GLANDULAR                      | (0)                    | (4)      |
| CARDIOVASCULAR SYSTEM                   |                        |          |
| No Tissues/Organs Examined              |                        |          |
| ENDOCRINE SYSTEM                        |                        |          |
| No Tissues/Organs Examined              |                        |          |
| GENERAL BODY SYSTEM                     |                        |          |
| No Tissues/Organs Examined              |                        |          |
| GENITAL SYSTEM                          |                        |          |
| No Tissues/Organs Examined              |                        |          |
| HEMATOLYMPHOID SYSTEM                   |                        |          |
| THYMUS                                  | (0)                    | (1)      |
| EDEMA                                   |                        | 1 (100%) |
| HEMORRHAGE                              |                        | 1 (100%) |
| LYMPHOCYTE; NECROSIS                    |                        | 1 (100%) |

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| F1 Male: F1 Biosample      |                        |          |
|----------------------------|------------------------|----------|
|                            | Treatment Groups (ppm) |          |
|                            | 0                      | 600      |
| INTEGUMENTARY SYSTEM       |                        |          |
| SKIN                       | (0)                    | (1)      |
| EDEMA                      |                        | 1 (100%) |
| MUSCULOSKELETAL SYSTEM     |                        |          |
| No Tissues/Organs Examined |                        |          |
| NERVOUS SYSTEM             |                        |          |
| No Tissues/Organs Examined |                        |          |
| RESPIRATORY SYSTEM         |                        |          |
| No Tissues/Organs Examined |                        |          |
| SPECIAL SENSES SYSTEM      |                        |          |
| No Tissues/Organs Examined |                        |          |
| URINARY SYSTEM             |                        |          |
| No Tissues/Organs Examined |                        |          |

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**Lab:** Battelle

**F1 Female: F1 Biosample**

|   | Treatment Groups (ppm) |          |
|---|------------------------|----------|
|   | 0                      | 600      |
| <b>Disposition Summary</b>              |                        |          |
| Animals Initially In Study              | 6                      | 6        |
| Censored                                |                        | 2        |
| Early Deaths                            |                        |          |
| Found Dead                              |                        | 3        |
| Sacrificed, Moribund                    |                        | 1        |
| Survivors                               |                        |          |
| Scheduled Sacrifice, Terminal           | 6                      |          |
| Number Animals Examined Microscopically |                        | 5        |
| ALIMENTARY SYSTEM                       |                        |          |
| STOMACH, FORESTOMACH                    | (0)                    | (1)      |
| HEMORRHAGE                              |                        | 1 (100%) |
| STOMACH, GLANDULAR                      | (0)                    | (4)      |
| HEMORRHAGE                              |                        | 1 (25%)  |
| CARDIOVASCULAR SYSTEM                   |                        |          |
| No Tissues/Organs Examined              |                        |          |
| ENDOCRINE SYSTEM                        |                        |          |
| No Tissues/Organs Examined              |                        |          |
| GENERAL BODY SYSTEM                     |                        |          |
| No Tissues/Organs Examined              |                        |          |
| GENITAL SYSTEM                          |                        |          |
| No Tissues/Organs Examined              |                        |          |
| HEMATOLYMPHOID SYSTEM                   |                        |          |
| LYMPH NODE, MESENTERIC                  | (0)                    | (1)      |
| SINUS ERYTHROCYTOSIS                    |                        | 1 (100%) |
| INTEGUMENTARY SYSTEM                    |                        |          |
| No Tissues/Organs Examined              |                        |          |

| F1 Female: F1 Biosample    |                        |     |
|----------------------------|------------------------|-----|
|                            | Treatment Groups (ppm) |     |
|                            | 0                      | 600 |
| MUSCULOSKELETAL SYSTEM     |                        |     |
| No Tissues/Organs Examined |                        |     |
| NERVOUS SYSTEM             |                        |     |
| No Tissues/Organs Examined |                        |     |
| RESPIRATORY SYSTEM         |                        |     |
| No Tissues/Organs Examined |                        |     |
| SPECIAL SENSES SYSTEM      |                        |     |
| No Tissues/Organs Examined |                        |     |
| URINARY SYSTEM             |                        |     |
| No Tissues/Organs Examined |                        |     |

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| F1 Male: F1 Core                        |                        |          |     |         |
|---|------------------------|----------|-----|---------|
|   | Treatment Groups (ppm) |          |     |         |
|   | 0                      | 150      | 300 | 600     |
| <b>Disposition Summary</b>              |                        |          |     |         |
| Animals Initially In Study              | 8                      | 8        | 8   | 8       |
| Censored                                |                        |          |     | 4       |
| Early Deaths                            |                        |          |     |         |
| Found Dead                              |                        |          |     | 3       |
| Sacrificed, Moribund                    |                        |          |     | 1       |
| Survivors                               |                        |          |     |         |
| Scheduled Sacrifice, Terminal           | 8                      | 8        | 8   |         |
| Number Animals Examined Microscopically | 8                      | 8        | 8   | 8       |
| ALIMENTARY SYSTEM                       |                        |          |     |         |
| LIVER                                   | (8)                    | (1)      | (8) | (8)     |
| CENTRIOBULAR; HEMORRHAGE                |                        |          |     | 3 (38%) |
| HEPATODIAPHRAGMATIC NODULE              |                        | 1 (100%) |     |         |
| CENTRIOBULAR; NECROSIS                  |                        |          |     | 7 (88%) |
| PHARYNX                                 | (8)                    | (0)      | (8) | (8)     |
| STOMACH, GLANDULAR                      | (0)                    | (0)      | (0) | (5)     |
| HEMORRHAGE                              |                        |          |     | 3 (60%) |
| CARDIOVASCULAR SYSTEM                   |                        |          |     |         |
| No Tissues/Organs Examined              |                        |          |     |         |
| ENDOCRINE SYSTEM                        |                        |          |     |         |
| No Tissues/Organs Examined              |                        |          |     |         |
| GENERAL BODY SYSTEM                     |                        |          |     |         |
| No Tissues/Organs Examined              |                        |          |     |         |
| GENITAL SYSTEM                          |                        |          |     |         |
| No Tissues/Organs Examined              |                        |          |     |         |



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| F1 Male: F1 Core                            |                        |          |          |          |
|---|------------------------|----------|----------|----------|
|   | Treatment Groups (ppm) |          |          |          |
|   | 0                      | 150      | 300      | 600      |
| HEMATOLYMPHOID SYSTEM                       |                        |          |          |          |
| LYMPH NODE, BRONCHIAL                       | (7)                    | (0)      | (6)      | (4)      |
| LYMPH NODE, MEDIASTINAL                     | (7)                    | (0)      | (7)      | (3)      |
| INTEGUMENTARY SYSTEM                        |                        |          |          |          |
| SKIN  | (0)                    | (0)      | (0)      | (2)      |
| HEMORRHAGE                                  |                        |          |          | 1 (50%)  |
| MUSCULOSKELETAL SYSTEM                      |                        |          |          |          |
| No Tissues/Organs Examined                  |                        |          |          |          |
| NERVOUS SYSTEM                              |                        |          |          |          |
| BRAIN                                       | (8)                    | (0)      | (8)      | (8)      |
| RESPIRATORY SYSTEM                          |                        |          |          |          |
| LARYNX                                      | (8)                    | (0)      | (8)      | (8)      |
| LUNG  | (8)                    | (0)      | (8)      | (8)      |
| ALVEOLUS; CRYSTALS                          | 1 (13%)                |          |          |          |
| ALVEOLUS; HEMORRHAGE                        |                        |          | 1 (13%)  | 1 (13%)  |
| NOSE  | (8)                    | (8)      | (8)      | (8)      |
| OLFACTORY EPITHELIUM; ATROPHY; DIFFUSE      |                        | 8 (100%) | 8 (100%) |          |
| ATROPHY; NEURONAL                           |                        | 8 (100%) | 8 (100%) |          |
| OLFACTORY EPITHELIUM; DEGENERATION; DIFFUSE |                        |          |          | 8 (100%) |
| TRACHEA                                     | (7)                    | (0)      | (8)      | (5)      |
| SPECIAL SENSES SYSTEM                       |                        |          |          |          |
| No Tissues/Organs Examined                  |                        |          |          |          |
| URINARY SYSTEM                              |                        |          |          |          |
| KIDNEY                                      | (8)                    | (0)      | (8)      | (8)      |
| PELVIS; DILATION                            |                        |          | 1 (13%)  | 2 (25%)  |
| NEPHROPATHY                                 | 1 (13%)                |          | 4 (50%)  | 2 (25%)  |

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| F1 Female: F1 Core                      |                        |          |     |          |
|---|------------------------|----------|-----|----------|
|   | Treatment Groups (ppm) |          |     |          |
|   | 0                      | 150      | 300 | 600      |
| <b>Disposition Summary</b>              |                        |          |     |          |
| Animals Initially In Study              | 8                      | 8        | 8   | 8        |
| Censored                                |                        |          |     | 5        |
| Early Deaths                            |                        |          |     |          |
| Found Dead                              |                        |          |     | 2        |
| Sacrificed, Moribund                    |                        |          |     | 1        |
| Survivors                               |                        |          |     |          |
| Scheduled Sacrifice, Terminal           | 8                      | 8        | 8   |          |
| Number Animals Examined Microscopically | 8                      | 8        | 8   | 8        |
| ALIMENTARY SYSTEM                       |                        |          |     |          |
| LIVER                                   | (8)                    | (2)      | (8) | (8)      |
| CENTRIOBULAR; HEMORRHAGE                |                        |          |     | 3 (38%)  |
| HEPATODIAPHRAGMATIC NODULE              |                        | 2 (100%) |     |          |
| CENTRIOBULAR; NECROSIS                  |                        |          |     | 8 (100%) |
| PHARYNX                                 | (8)                    | (0)      | (8) | (8)      |
| STOMACH, GLANDULAR                      | (0)                    | (0)      | (0) | (7)      |
| HEMORRHAGE                              |                        |          |     | 3 (43%)  |
| CARDIOVASCULAR SYSTEM                   |                        |          |     |          |
| No Tissues/Organs Examined              |                        |          |     |          |
| ENDOCRINE SYSTEM                        |                        |          |     |          |
| No Tissues/Organs Examined              |                        |          |     |          |
| GENERAL BODY SYSTEM                     |                        |          |     |          |
| No Tissues/Organs Examined              |                        |          |     |          |
| GENITAL SYSTEM                          |                        |          |     |          |
| No Tissues/Organs Examined              |                        |          |     |          |

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| F1 Female: F1 Core                          |                        |          |          |          |
|---|------------------------|----------|----------|----------|
|   | Treatment Groups (ppm) |          |          |          |
|   | 0                      | 150      | 300      | 600      |
| HEMATOLYMPHOID SYSTEM                       |                        |          |          |          |
| LYMPH NODE, BRONCHIAL                       | (6)                    | (0)      | (8)      | (4)      |
| LYMPH NODE, MEDIASTINAL                     | (7)                    | (0)      | (7)      | (8)      |
| LYMPH NODE, MESENTERIC                      | (0)                    | (0)      | (0)      | (1)      |
| SINUS ERYTHROCYTOSIS                        |                        |          |          | 1 (100%) |
| THYMUS                                      | (0)                    | (0)      | (0)      | (2)      |
| NECROSIS                                    |                        |          |          | 2 (100%) |
| INTEGUMENTARY SYSTEM                        |                        |          |          |          |
| SKIN  | (0)                    | (0)      | (0)      | (2)      |
| MUSCULOSKELETAL SYSTEM                      |                        |          |          |          |
| No Tissues/Organs Examined                  |                        |          |          |          |
| NERVOUS SYSTEM                              |                        |          |          |          |
| BRAIN                                       | (8)                    | (0)      | (8)      | (8)      |
| RESPIRATORY SYSTEM                          |                        |          |          |          |
| LARYNX                                      | (8)                    | (0)      | (8)      | (8)      |
| LUNG  | (8)                    | (0)      | (8)      | (8)      |
| NOSE  | (8)                    | (8)      | (8)      | (8)      |
| OLFACTORY EPITHELIUM; ATROPHY; DIFFUSE      |                        | 8 (100%) | 8 (100%) |          |
| ATROPHY; NEURONAL                           |                        | 8 (100%) | 8 (100%) |          |
| OLFACTORY EPITHELIUM; DEGENERATION; DIFFUSE |                        |          |          | 8 (100%) |
| TRACHEA                                     | (8)                    | (0)      | (8)      | (8)      |
| SPECIAL SENSES SYSTEM                       |                        |          |          |          |
| No Tissues/Organs Examined                  |                        |          |          |          |

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| F1 Female: F1 Core          |         |     |         |         |
|-----------------------------|---------|-----|---------|---------|
| Treatment Groups (ppm)      |         |     |         |         |
|                             | 0       | 150 | 300     | 600     |
| URINARY SYSTEM              |         |     |         |         |
| KIDNEY                      | (8)     | (0) | (8)     | (8)     |
| PELVIS; LEFT; DILATION      |         |     | 1 (13%) |         |
| PELVIS; INFLAMMATION; ACUTE |         |     |         | 1 (13%) |
| NEPHROPATHY                 | 2 (25%) |     | 4 (50%) | 1 (13%) |

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LEGEND

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Censored animals are scheduled for sacrifice prior to the end of the study. The censored animals are included in the pathology data.

Number of animals examined given for each tissue. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion.

Number of animals with observation reported with percent incidence in parentheses

**\*\* END OF REPORT \*\***